AMENDMENTS TO THE CLAIMS

1. (Currently amended) A seal assembly for a reciprocating <u>ram</u> shaft <u>of a blowout</u>

preventer, comprising:

a blowout preventer body having a bore;

a shaft having a first end and a second end, the ram shaft being adapted to move

reciprocally within the <u>blowout preventer</u> body between [[an]] <u>a fully</u> extended position

extending from the blowout preventer body and a fully retracted position retracted within the

blowout preventer body:

at least one first circumferential seal positioned in the blowout preventer body and

circumscribing the first end of the ram shaft, the first circumferential seal performing a dedicated

sealing function of preventing fluids from migrating along the  $\underline{\mathrm{ram}}$  shaft from a first region of the

blowout preventer body, the ram shaft having a first seal travel area which is in continuous

 $\underline{sealing} \ contact \ with \ the \ first \ seal \ during \ axial \ reciprocating \ movement \ of \ the \ \underline{ram} \ shaft \ \underline{between}$ 

the fully extended position and the fully retracted position, at least a portion of the first seal

travel area extending from the  $\underline{blowout\ preventer}$  body where it is exposed to contaminants when

the <u>ram</u> shaft is in the <u>fully</u> extended position;

at least one second circumferential seal positioned in the blowout preventer body and

circumscribing the first end of the  $\underline{ram}$  shaft in axially spaced relation to the first circumferential

seal, the second circumferential seal being dedicated to performing the same sealing function as

the first circumferential seal and serving as a redundant back up seal until the first

circumferential seal experiences seal failure isolated on each side from fluids to be sealed against

such that the second circumferential seal only serves an active sealing function upon failure of the first circumferential seal, the second circumferential seal being positioned to contain all

fluids within the blowout preventer body and prevent fluids from migrating along the ram shaft

fluids within the blowout preventer body and prevent fluids from migrating along the ram shart

from the first region of the blowout preventer body and to maintain the seal at the first end of the

-2-

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Suite 2800 Seattle, Washington 98101 206.682.8100 ram shaft in the event of a failure of the first circumferential seal, the <u>ram</u> shaft having a second seal travel area which is in <u>continuous</u> contact with the second seal during axial reciprocating

movement of the ram shaft between the fully extended position and the fully retracted position,

the second seal area remaining sheltered within the <u>blowout preventer</u> body even when the <u>ram</u>

shaft is in the fully extended position; and

the first seal travel area and the second seal travel area being axially spaced separate and

distinct areas on the ram shaft, such that damage to the exposed portion of the first seal travel

area leading to a failure of the at least one first circumferential seal does not lead to failure of the at least one second circumferential seal, as the second circumferential seal engages the second

seal travel area which is separate and distinct from the first seal travel area.

(Canceled)

3. (Previously presented) The seal assembly of Claim 1, wherein the first and

second seals each comprise a seal cluster including a primary seal, a seal ring carrier, a wiper

seal and an o-ring seal.

4. (Canceled)

-3-

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